

DERWENT-ACC-NO: 1997-073175

DERWENT-WEEK: 199906

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TITLE: Water-based polymer dispersions -  
comprise at least one monomer of butadiene and isoprene, at  
least one of acrylic and methacrylic acid ester(s)  
and alkanol ester(s) and other monomer

INVENTOR: AN DE MEULEN, L; BALK, R ; CLAASSEN, P ;  
GRAALMANN, O ; VISSEREN, M  
; DE MEULEN, L A

PATENT-ASSIGNEE: BALK R[BALKI] , BASF AG[BADI]

PRIORITY-DATA: 1995DE-1048313 (December 22, 1995) ,  
1995DE-1019340 (May 26,  
1995)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	
LANGUAGE		MAIN-IPC	
JP 08319396 A		December 3, 1996	N/A
013	C08L	047/00	
CA 2177349 A		November 27, 1996	N/A
000	C08L	009/10	
DE 19548313 A1		June 26, 1997	N/A
014	C08F	236/04	
CN 1137535 A		December 11, 1996	N/A
000	C08F	136/04	
US 5733944 A		March 31, 1998	N/A
010	C08J	009/28	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 08319396A	N/A	
1996JP-0132138	May 27, 1996	
CA 2177349A	N/A	
1996CA-2177349	May 24, 1996	

DE 19548313A1	N/A
1995DE-1048313	December 22, 1995
CN 1137535A	N/A
1996CN-0110054	May 25, 1996
US 5733944A	N/A
1996US-0651633	May 22, 1996

INT-CL (IPC): C08F002/08, C08F002/16 , C08F002/22 ,  
C08F004/40 ,  
C08F036/00 , C08F036/04 , C08F136/04 , C08F236/04 ,  
C08J009/00 ,  
C08J009/28 , C08L009/10 , C08L047/00

RELATED-ACC-NO: 1997-001211

ABSTRACTED-PUB-NO: JP 08319396A

#### BASIC-ABSTRACT:

In a water-based polymer dispersion of a polymer consisting of (a) at least 50 wt. % of at least one monomer of butadiene and isoprene (monomer a), (b) at least 10 wt. % of at least one monomer of acrylic and methacrylic acid esters and 1-8 C alkanol esters (monomer b) and (c) 0-10 wt. % of another radically copolymerisable monomer bearing at least one ethylenic unsatd. gp. (monomer c) distributed in the dispersed state in the radically polymerised form, the total of monomers (a) and (b) polymerisation-introduced in the radically polymerised form is at least 90 wt. % per total of monomers (a). Also claimed are latex foam rubbers and a method for producing large polymer particles in the water-based polymer dispersion.

USE - The latex foam rubbers are used as mattresses, cushions and bolster materials.

ADVANTAGE - The latex foam rubbers have excellent fire retardancy without loss of physical properties of latex foam rubbers.

ABSTRACTED-PUB-NO: US 5733944A

EQUIVALENT-ABSTRACTS:

In a water-based polymer dispersion of a polymer consisting of (a) at least 50 wt. % of at least one monomer of butadiene and isoprene (monomer a), (b) at least 10 wt. % of at least one monomer of acrylic and methacrylic acid esters and 1-8 C alkanol esters (monomer b) and (c) 0-10 wt. % of another radically copolymerisable monomer bearing at least one ethylenic unsatd. gp. (monomer c) distributed in the dispersed state in the radically polymerised form, the total of monomers (a) and (b) polymerisation-introduced in the radically polymerised form is at least 90 wt. % per total of monomers (a). Also claimed are latex foam rubbers and a method for producing large polymer particles in the water-based polymer dispersion.

USE - The latex foam rubbers are used as mattresses, cushions and bolster materials.

ADVANTAGE - The latex foam rubbers have excellent fire retardancy without loss of physical properties of latex foam rubbers.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: WATER BASED POLYMER DISPERSE COMPRISE ONE  
MONOMER BUTADIENE  
ISOPRENE ONE ACRYLIC METHACRYLIC ACID ESTER  
ALKANOL ESTER MONOMER

DERWENT-CLASS: A12 A14 A84

CPI-CODES: A04-B05; A04-B07; A04-F06B; A07-B01; A07-B02;  
A12-D01; A12-S04A3;  
A12-S04D;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10

D51 D54 D56  
D58 D84 ; G0340\*R G0339 G0260 G0022 D01 D12 D10 D26 D51  
D53 D58  
D63 F41 F89 D11 D84 D85 D86 D87 D88 D89 D90 D91 F26\*R ;  
S9999 S1025  
S1014 ; S9999 S1456\*R ; S9999 S1309\*R ; L9999 L2528  
L2506 ; L9999  
L2551 L2506 ; H0124\*R ; K9723 ; K9370 ; P0328 ; P0088  
Polymer Index [1.2]  
018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; R01130 G0351 G0340 G0339 G0260 G0022 D01 D11  
D10 D12 D26  
D51 D53 D58 D63 D87 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R  
; S9999 S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506  
; H0124\*R  
; K9723 ; K9370 ; P0328 ; P0088  
Polymer Index [1.3]  
018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; R00745 G0340 G0339 G0260 G0022 D01 D11 D10  
D12 D26 D51  
D53 D58 D63 D91 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R ; S9999  
S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;  
H0124\*R ; K9723  
; K9370 ; P0328 ; P0088  
Polymer Index [1.4]  
018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; R00642 G0340 G0339 G0260 G0022 D01 D11 D10  
D12 D26 D51  
D53 D58 D63 D84 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R ; S9999  
S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;  
H0124\*R ; K9723  
; K9370 ; P0328 ; P0088  
Polymer Index [1.5]  
018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; R01126 G0340 G0339 G0260 G0022 D01 D11 D10  
D12 D26 D51  
D53 D58 D63 D85 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R ; S9999  
S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;  
H0124\*R ; K9723  
; K9370 ; P0328 ; P0088

Polymer Index [1.6]

018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; R24029 G0351 G0340 G0339 G0260 G0022 D01 D11  
D10 D12 D26  
D51 D53 D58 D63 D87 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R  
; S9999 S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506  
; H0124\*R  
; K9723 ; K9370 ; P0328 ; P0088

Polymer Index [1.7]

018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; G0384\*R G0339 G0260 G0022 D01 D12 D10 D26 D51  
D53 D58  
D63 F41 F89 D11 D85 D86 D87 D88 D89 D90 D91 D92 F26\*R ;  
S9999 S1025  
S1014 ; S9999 S1456\*R ; S9999 S1309\*R ; L9999 L2528  
L2506 ; L9999  
L2551 L2506 ; H0124\*R ; K9723 ; K9370 ; P0328 ; P0088

Polymer Index [1.8]

018 ; H0022 H0011 ; R00806 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D84 ; R00479 G0384 G0339 G0260 G0022 D01 D11 D10  
D12 D26 D51  
D53 D58 D63 D85 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R ; S9999  
S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;  
H0124\*R ; K9723  
; K9370 ; P0328 ; P0088

Polymer Index [1.9]

018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D85 ; G0340\*R G0339 G0260 G0022 D01 D12 D10 D26 D51  
D53 D58  
D63 F41 F89 D11 D84 D85 D86 D87 D88 D89 D90 D91 F26\*R ;  
S9999 S1025  
S1014 ; S9999 S1456\*R ; S9999 S1309\*R ; L9999 L2528  
L2506 ; L9999  
L2551 L2506 ; H0124\*R ; K9723 ; K9370 ; P0328 ; P0088

Polymer Index [1.10]

018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10  
D51 D54 D56  
D58 D85 ; R01130 G0351 G0340 G0339 G0260 G0022 D01 D11  
D10 D12 D26  
D51 D53 D58 D63 D87 F41 F89 ; S9999 S1025 S1014 ; S9999  
S1456\*R  
; S9999 S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506

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; H0124*R
; K9723 ; K9370 ; P0328 ; P0088
Polymer Index [1.11]
018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10
D51 D54 D56
D58 D85 ; R00745 G0340 G0339 G0260 G0022 D01 D11 D10
D12 D26 D51
D53 D58 D63 D91 F41 F89 ; S9999 S1025 S1014 ; S9999
S1456*R ; S9999
S1309*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;
H0124*R ; K9723
; K9370 ; P0328 ; P0088
Polymer Index [1.12]
018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10
D51 D54 D56
D58 D85 ; R00642 G0340 G0339 G0260 G0022 D01 D11 D10
D12 D26 D51
D53 D58 D63 D84 F41 F89 ; S9999 S1025 S1014 ; S9999
S1456*R ; S9999
S1309*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;
H0124*R ; K9723
; K9370 ; P0328 ; P0088
Polymer Index [1.13]
018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10
D51 D54 D56
D58 D85 ; R01126 G0340 G0339 G0260 G0022 D01 D11 D10
D12 D26 D51
D53 D58 D63 D85 F41 F89 ; S9999 S1025 S1014 ; S9999
S1456*R ; S9999
S1309*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;
H0124*R ; K9723
; K9370 ; P0328 ; P0088
Polymer Index [1.14]
018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10
D51 D54 D56
D58 D85 ; R24029 G0351 G0340 G0339 G0260 G0022 D01 D11
D10 D12 D26
D51 D53 D58 D63 D87 F41 F89 ; S9999 S1025 S1014 ; S9999
S1456*R
; S9999 S1309*R ; L9999 L2528 L2506 ; L9999 L2551 L2506
; H0124*R
; K9723 ; K9370 ; P0328 ; P0088
Polymer Index [1.15]
018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10
D51 D54 D56
D58 D85 ; G0384*R G0339 G0260 G0022 D01 D12 D10 D26 D51
D53 D58
D63 F41 F89 D11 D85 D86 D87 D88 D89 D90 D91 D92 F26*R ;

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S9999 S1025  
     S1014 ; S9999 S1456\*R ; S9999 S1309\*R ; L9999 L2528  
 L2506 ; L9999  
     L2551 L2506 ; H0124\*R ; K9723 ; K9370 ; P0328 ; P0088  
 Polymer Index [1.16]  
     018 ; H0022 H0011 ; R00429 G0828 G0817 D01 D02 D12 D10  
 D51 D54 D56  
     D58 D85 ; R00479 G0384 G0339 G0260 G0022 D01 D11 D10  
 D12 D26 D51  
     D53 D58 D63 D85 F41 F89 ; S9999 S1025 S1014 ; S9999  
 S1456\*R ; S9999  
     S1309\*R ; L9999 L2528 L2506 ; L9999 L2551 L2506 ;  
 H0124\*R ; K9723  
     ; K9370 ; P0328 ; P0088  
 Polymer Index [1.17]  
     018 ; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56  
 D58 D84 ; R00429  
     G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D85 ;  
 G0022\*R D01 D51  
     D53 H0215 ; G0817\*R D01 D51 D54 H0215 ; G0975\*R D01 D51  
 D55 H0215  
     ; G0340\*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58  
 D63 F41  
     F89 D11 D84 D85 D86 D87 D88 D89 D90 D91 F26\*R ; R01130  
 G0351 G0340  
     G0339 G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63  
 D87 F41 F89  
     ; R00745 G0340 G0339 G0260 G0022 D01 D11 D10 D12 D26  
 D51 D53 D58  
     D63 D91 F41 F89 ; R00642 G0340 G0339 G0260 G0022 D01  
 D11 D10 D12  
     D26 D51 D53 D58 D63 D84 F41 F89 ; R01126 G0340 G0339  
 G0260 G0022  
     D01 D11 D10 D12 D26 D51 D53 D58 D63 D85 F41 F89 ;  
 R24029 G0351 G0340  
     G0339 G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63  
 D87 F41 F89  
     ; G0384\*R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58  
 D63 F41  
     F89 D11 D85 D86 D87 D88 D89 D90 D91 D92 F26\*R ; R00479  
 G0384 G0339  
     G0260 G0022 D01 D11 D10 D12 D26 D51 D53 D58 D63 D85 F41  
 F89 ; S9999  
     S1025 S1014 ; S9999 S1456\*R ; S9999 S1309\*R ; L9999  
 L2528 L2506  
     ; L9999 L2551 L2506 ; H0124\*R ; K9723 ; K9370 ; S9999  
 S1025 S1014  
     ; S9999 S1456\*R ; S9999 S1309\*R ; L9999 L2528 L2506 ;

L9999 L2551

L2506 ; H0124\*R ; K9723 ; K9370 ; H0033 H0011 ; P0328  
; P0088

Polymer Index [1.18]

018 ; ND04 ; B9999 B5209 B5185 B4740 ; B9999 B4842

B4831 B4740 ;

B9999 B4239 ; B9999 B3792 B3747 ; B9999 B3907 B3838

B3747 ; B9999

B3838\*R B3747 ; Q9999 Q9325 ; Q9999 Q7749 Q7681 ; ND10

; B9999 B5094

B4977 B4740 ; N9999 N6826 N6655 ; N9999 N6144 ; Q9999

Q7716 Q7681

; ND01

Polymer Index [1.19]

018 ; R05252 D01 D11 D10 D14 D13 D31 D50 D76 D90 F48 ;

C999 C088\*R

C000 ; C999 C293

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-023652